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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
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10/824,435

04/15/2004

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Q80481

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23373 7590 07/07/2009
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EXAMINER

PENG, FRED H

ART UNIT

PAPER NUMBER

2426

MAIL DATE

DELIVERY MODE

07/07/2009

PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Office Action Summary	Application No. 10/824,435	Applicant(s) YOON ET AL.	
	Examiner FRED PENG	Art Unit 2426	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on 23 March 2009.
- 2a) ☒ This action is **FINAL**. 2b) ☐ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1,2,4-9,11,12,14-19 and 21-23 is/are pending in the application.
- 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 5) ☐ Claim(s) _____ is/are allowed.
- 6) ☒ Claim(s) 1,2,4-9,11,12,14-19 and 21-23 is/are rejected.
- 7) ☐ Claim(s) _____ is/are objected to.
- 8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☒ The drawing(s) filed on 04/15/2004 is/are: a) ☒ accepted or b) ☐ objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some * c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
 2. ☐ Certified copies of the priority documents have been received in Application No. _____.
 3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- | | |
|--|---|
| 1) <input type="checkbox"/> Notice of References Cited (PTO-892) | 4) <input type="checkbox"/> Interview Summary (PTO-413) |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948) | Paper No(s)/Mail Date. _____ |
| 3) <input type="checkbox"/> Information Disclosure Statement(s) (PTO/SB/08) | 5) <input type="checkbox"/> Notice of Informal Patent Application |
| Paper No(s)/Mail Date _____ | 6) <input type="checkbox"/> Other: _____ |

DETAILED ACTION

1. Claims 1-2, 4-9, 11-12, 14-19, and 21-23 are pending in this application.

Claim Rejections - 35 USC § 102

2. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.

3. Claims 1, 4, 6, 11, 14-15 and 21-23 are rejected under 35 U.S.C. 102(e) as being anticipated by Lennon et al (US 2002/0107973).

Regarding Claims 1 and 14, Lennon discloses an apparatus (FIG.2; comprising user terminal 101 and server side 212, 211, 210) with corresponding method operable to convert digital content metadata comprising:

a mapping module (212) for converting the received external digital content metadata into the digital content metadata peculiar to the network (Para 8 - Para 11; Para 73 lines 1-14; converting into XML description metadata); and

a search module (212) for locating a Uniform Resource Locator (URL) (Para 72 line 8 before last – last line; XML description metadata including a link to a content item such as URL) using a unique identifier assigned to each program in the received external digital content metadata (Para 71; Para 105-106; either a unique identifier such as a URI as a link to a program metadata; or a content item description such as a name attribute or title for a selected program that is not XML compliant), said URL accessing a program in the received external digital content

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metadata, and wherein the search module locates the URL after the received external digital content metadata is converted by the mapping module (Para 73 lines 1-14; Para 72 line 8 before last – last line; the media browser then is able to use the located URL, a link in the XML compliant metadata after conversion of the content identifier in the non-XML compliance descriptor to access the program).

Regarding Claims 4 and 15, Lennon discloses a network apparatus (FIG.2, element 212) with corresponding method operable to convert digital content metadata comprising:

- a metadata receiving unit for receiving digital content metadata external to the network (Para 9);

- a converter for converting the received external digital content metadata into the digital content metadata peculiar to the network by causing the external digital content metadata received in the metadata receiving unit to be mapped into the peculiar digital content metadata in a predetermined manner (Para 8 – Para 14) and by locating a URL using a unique identifier assigned to each program in the received external digital content metadata content metadata, wherein said URL accesses a program in the received external digital content metadata, and wherein the URL is located after the received external digital content metadata is mapped into the peculiar digital content metadata (Para 1; Para 71; Para 72 line 8 before last – last line; Para 73 lines 1-14; the media browser then is able to use the located URL, a link in the XML compliant metadata to access the program after conversion of the content identifier in the non-XML compliance document); and

- a storage unit for storing the converted digital content metadata therein to allow devices in the network to use the converted digital content metadata (FIG.2, element 210; Para 73; the Legacy Database is converted digital content metadata for legacy metadata usage).

Regarding Claim 6, Lennon further discloses a processing module for analyzing and using metadata which has not been mapped into properties supported by classes of digital

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content metadata peculiar to an existing network among external digital content metadata mapped into the digital content metadata peculiar to the network (Para 12).

Regarding Claim 11, the limitations have been analyzed and disclosed as in Claim 4 and Claim 6.

Regarding Claim 21, Lennon further discloses the mapping module converts the received external digital content metadata into the digital content metadata peculiar to the network by mapping the external digital content metadata into classes of the digital content metadata (Para 12-14).

Regarding Claim 22, Lennon further discloses the mapping module converts the received external digital content metadata into the digital content metadata peculiar to the network by defining a new class of the digital content metadata peculiar to the network, said new class corresponding to the received external digital content metadata (Para 104).

Regarding Claim 23, Lennon further discloses the unique identifier located in the received external digital content metadata binds information of the received external digital content metadata, and wherein the mapping module uses the information bound by the unique identifier for converting received external digital content metadata into digital content metadata peculiar to a network (Para 105-106; a visual identifier or text identifier such as a name attributes binds information of the received external digital content metadata).

Claim Rejections - 35 USC § 103

4. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

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(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

5. Claims 2, 7-9, 12 and 17-19 are rejected under 35 U.S.C. 103(a) as being unpatentable over Lennon et al (US 2002/0107973) in view of applicant's admitted prior art.

Regarding Claims 2, 7-9, 12 and 17-19, Lennon discloses the digital content metadata received external to the network can be any known metadata standard.

Lennon is silent about specific TV-Anytime metadata and Universal Play and Plug (UPnP).

In applicant's specifications, applicant admits both TV-Anytime and UPnP metadata are standards (page 3).

Therefore, it would have been obvious to one of ordinary skill in the art at the time the invention was made to modify Lennon's system to include TV-Anytime and UPnP as one of popular choices for content search.

6. Claims 5 and 16 are rejected under 35 U.S.C. 103(a) as being unpatentable over Lennon et al (US 2002/0107973) in view of Sie et al (US 2002/0199188).

Regarding Claims 5 and 16, Lennon fails to disclose a metadata filtering unit for deleting a part or all of the converted digital content metadata stored in the storage unit according to a predetermined condition.

In an analogous art, Sie discloses deletion of metadata when corresponding digital content is deleted (Para 132).

Therefore, it would have been obvious to one of ordinary skill in the art at the time the invention was made to modify Lennon's system to include deletion of metadata when

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corresponding digital content is deleted, as taught by Sie as a common practice to maintain updated digital content database.

Response to Arguments

7. Applicant's arguments with respect to claims 1-2, 4-9, 11-12, 14-19, and 21-23 have been considered but are moot in view of the new ground(s) of rejection.

In reference to Applicant's arguments:

At best, Lennon's URI would correspond to the claimed URL, rather than the claimed unique identifier. Under such an interpretation, Lennon does not teach or suggest that the alleged search module locates the alleged URL after the received external digital content metadata is converted by the mapping module, as recited by claim 1. Specifically, as previously noted, Lennon discloses that a URI initiates access of the metadata in order to retrieve the metadata from legacy database 210 (paragraphs 71 and 73). The URI link is not located after the conversion of the metadata. Instead, Lennon's URI is used to access the metadata prior to the retrieval of the metadata from legacy database 212, and thus prior to the converting of the retrieved metadata. Thus, Lennon does not teach or suggest that the alleged search module locates the URL after the received external digital content metadata is converted by the mapping module, as recited by claim 1.

Examiner's response:

The Examiner respectfully disagrees with Applicant's arguments. Lennon's URI is only one of many ways as a unique identifier to access the non-XML compliance metadata for a selected program. Lennon also discloses using a visual identifier or text identifier such as a name attributes or a title to identify a program in the non-XML compliance metadata (Para 105-106). The media server then is able to convert the content identifier in the non-XML compliance descriptor to a XML compliance description with a link, such as URL; the media browser then is able to use the located URL, a link in the XML compliant metadata to access the program.

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Conclusion

8. Claims 1-2, 4-9, 11-12, 14-19, and 21-23 are rejected.

9. **THIS ACTION IS MADE FINAL.** Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of this final action.

Correspondence Information

10. Any inquiry concerning this communication or earlier communications from the examiner should be directed to FRED PENG whose telephone number is (571)270-1147. The examiner can normally be reached on Monday-Friday 09:30-19:30.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Joseph Hirl can be reached on (571) 272-3685. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative

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or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

Fhp

/Joseph P. Hirl/

Supervisory Patent Examiner, Art Unit 2426

July 2, 2009